

From the INTERNATIONAL SEARCHING AUTHORITY				
To:	2003			
LEE, Keon-Joo	PCT			
Mihwa Bldg. 110-2, Myongryun-dong 4-ga, Chongro-gu, Seoul 110-524, Republic of Korea	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION			
	(PCT Rule 44.1)			
GUA	Date of mailing (day/month/year) 30 OCTOBER 2003 (30.10.2003)			
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below			
P11462-PCT				
International application No.	Intrenational filing date (day/month/year)			
PCT/KR03/02001	30 SEPTEMBER 2003 (30.09.2003)			
Applicant				
SAMSUNG ELECTRONICS CO., LTD. et al				
1. X The applicant is hereby notified that the international search report has been established and is transmitted herewith.				
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.				
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland				
Facsilime No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.				
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision theron has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision theron to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Reminders				
applicant wishes to avoid or postpone publication, a notice of w	al application will be published by the International Bureau. If the vithdrawal of the international application, or of the priority claim, I and 90bis.3, respectively, before the completion of the technical			
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months(or later) will apply even if no demand is filed within 19 months.				
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.				

Name and mailing address of the ISA/KR



Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

COMMISSIONER

Telephone No. 82-42-481-5198



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		Transmittal of International Search Report	
P11462-PCT	ACTION (Form PCT/ISA/220) as well as, where applicable, item 5 belo		•••	
International application No.	International filing date	•	(Earliest) Priority Date (day/month/year)	
PCT/KR03/02001	30 SEPTEMBER 200	3 (30.09.2003)	30 SEPTEMBER 2002 (30.09.2002)	
Applicant SAMSUNG ELECTRONICS CO., LT				
This International search report has been prep to Article 18. A copy is being transmitted to t This international search report consists of a t	he International Bureau.	-	y and is transmitted to the applicant according	
It is also accompanied by a cop			rt.	
Basis of the report a. With regard to the language, the integrated language in which it was filed, unless			of the international application in the	
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).				
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:				
contained in the international application in written form.				
filed together with the international application in computer readable form.				
furnished subsequently to this Authority in written form.				
furnished subsequently to this Authority in computer readable form.				
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.				
2. Certain claims were found unsearchable (See Box I).				
3. Unity of invention is lacking (See Box II).				
4. With regard to the title,				
X the text is approved as submitted by the applicant.				
the text has been established by this Authority to read as follows:				
5. With regard to the abstract,				
X the text is approved as submitted by the applicant.				
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may,				
within one month from the date of mailing of this international search report, submit comments to this Authority.				
6. The figure of the drawing to be public	shed with the abstract is F	igure No.	2	
\overline{X} as suggested by the applicant.			None of the figures	
because the applicant failed to suggest a figure.				
because this figure better characterizes the invention.				

nternational application No. INTERNATIONA JEARCH REPORT PCT/KR03/02001 A. CLASSIFICATION OF SUBJECT MATTER IPC7 H04L 12/56 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7 H04L 12/56 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean patents and applications for inventions since 1975 Korean utility models and applications for utility models since 1975 Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) http://www.espacenet.com(Worldwide Search in the European Patent Office), "root leaf update" IEE/IEEE Electronic Library (Since 1988), "root and leaf and update" DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 6397329 A (TELCORDIA TECH INC) 28 May 2002 (28.05.2002) 1 - 12Υ the whole document US 6356913 A (AVAYA TECHNOLOGY CORP) 12 March 2002 (12.03.2002) 1 - 12 the whole document EP 1119136 A (ALCATEL CANADA INC) 25 July 2001 (25.07.2001) 1 - 12the whole document Efficient algorithms for maintenance of large database indexes 1 - 12Srivastava, J.; Ramamoorthy, C.V.; Data Engineering, 1988. Proceedings. Fourth International Conference on , 1-5 Feb. 1988 Page(s): 402 -408 1 - 12 Concurrent search and insertion in K-Dimensional Height Balanced Trees Varshneya, A.; Madan, B.B.; Balakrishnan, M.; Parallel Processing Symposium, 1994. Proceedings., Eighth International, 26-29 April 1994 Page(s): 883 -887 See patent family annex. Further documents are listed in the continuation of Box C. Special categories of cited documents: "T" later document published after the international filing date or priority document defining the general state of the art which is not considered date and not in conflict with the application but cited to understand to be of particular relevance the principle or theory underlying the invention earlier application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of citation or other "Y" document of particular relevance; the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination

Date of the actual completion of the international search

Date of mailing of the international search report

being obvious to a person skilled in the art

"&" document member of the same patent family

29 OCTOBER 2003 (29.10.2003)

Name and mailing address of the ISA/KR

than the priority date claimed

Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

29 OCTOBER 2003 (29.10.2003)

document published prior to the international filing date but later

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